



3GPP Specification Compliance for NRF Interfaces

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Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	5G-NRF
Applicable Platform(s)	SMI
Default Setting	Enabled – Always-on
Related Changes in this Release	Not Applicable
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2026.01

Feature Description

The NRF currently supports the June 2019 compliance version of 3GPP specification for the Nnrf interface. The NRF processes the messages from the Nnrf interface as per the compliance profile configured for the corresponding services. For information on the compliance profile configurations, see the [Configuring Interfaces, on page 2](#) section.

Standards Compliance

The NRF uses the Nnrf interface to communicate with the other NFs or nodes.

Use the following table to determine the compliance mapping of the Nnrf interface and the 3GPP Standards specification version.

Interface	Relationship	3GPP Specification	Version
Nnrf	Between NRF and other NFs, for example, AMF, PCF, SMF, and so on.	29.510	For June 2019 Compliance Support: 15.4.0

Configuring Interfaces

Use the following commands to configure the NRF interfaces in compliance with the 3GPP specifications.

```

config
  instance instance-id instance_id
  endpoint sbi
  replicas integer
  nodes integer
  instancetype { IPv4 | IPv6 } <IPv4_address | IPv6_address>
  {vip-ip | vip-ipv6} ip_address
  interface mgmt
    loopbackPort port_number
    api-root root
  exit
  interface disc
    loopbackPort port_number
    api-root root
  exit
exit

```

**Note**

- **instance** *instance-id* *instance_id*: Specifies the GR instance specific configurations.
- **endpoint sbi**: Specifies the service-based interface (sbi) as the endpoint.
- **replicas**: Specifies the number of instances of the service-based interface. This parameter is optional.
- **nodes**: Specifies the number of nodes of the service-based interface. This parameter is optional.
- **instancetype { IPv4 | IPv6 }** *IPv4_address* | *IPv6_address*: Specifies the local interface type for the NRF REST endpoint.
- **{vip-ip | vip-ipv6}** *ip_address*: Specifies the virtual IP address of the virtual host. The NRF uses this as the listening IP address for the status notification.
- **loopbackPort** *port_number*: Specifies the internal port number of the loopback host. The NRF uses this port for the NF status notification. By default, the port number 8094 is used for management services and 8095 for discovery services.

Sample Configuration

The following is a sample output of the IPv4 interface configuration:

```
endpoint sbi
  replicas 2
  nodes 2
  vip-ip 209.165.200.225
  interface mgmt
    loopbackPort 8094
    api-root root
  exit
  interface disc
    loopbackPort 8095
    api-root root
  exit
exit
```

The following example configuration shows how to configure IPv6 on both the management and discovery services:

```
instance instance-id 1
  endpoint service
    replicas 1
    nodes 1
  exit
  endpoint sbi
    replicas 1
    nodes 1
    instancetype IPv6
    vip-ipv6 1111::10:1:6:34
    interface mgmt
      api-root root
    exit
    interface disc
      api-root root
    exit
  exit
```

```
exit  
exit
```